52 Park Avenue
Park Ridge, NJ 07656
United States of America

BULK RATE
U.S. POSTAGE
PAID
Park Ridge, N. J.
Permit No. 21

GILFER

When you're ready for the best

RECEIVERS

ANTENNAS

SWL BOOKS

STORE HOURS: Monday - Friday 9 am - 5 pm
Saturday 10 am - 3 pm

WELCOME...

GILFER SHORTWAVE
America's Premier SWL Center

THE OLDEST...
The airwaves were filled with reports from the Korean conflict when we first opened our doors in the early Fifties. At that time the only source of information about international radio listening was the amateur radio store. GILFER wanted to serve the SWL specifically. So began our long history of importing and distributing quality receivers, books and accessories. And 37 years later, we are still proud to serve you, the SWL, by recognizing your special needs, to keep you in direct touch with the world through shortwave radio.

...AND THE BEST!
We sell only the finest equipment and accessories. Authorized dealer for KENWOOD, ICOM, JAPAN RADIO CO., YAESU, SONY, TEN-TEC, DATONG, PANASONIC, DRESSLER, GRUNDIG, KANTRONICS, AOR, UNIVERSAL, ALPHA DELTA, STONER-McKAY DYMEK, ANTENNA SUPERMARKET, and more. We also feature the best in radio books by such publishers as ARRL, CRB RESEARCH, WORLD RADIO TV HANDBOOK, TAB, HOWARD SAMS, and of course our own GILFER publications.

VISIT OUR STORE
We're conveniently located just outside of New York City, and only minutes away from the Garden State Parkway. Take GSP Exit 172 (Grand Ave.; exit on northbound lane only), make right off exit, follow to bottom of hill (approx. 1.5 miles), make right after railroad tracks. Next traffic light is Park Ave., make right. GILFER is located on the left side of Park Ave., opposite the Borough Hall. (If coming from New York State, take Garden State Parkway South, make U-turn in the first gas stop you see after crossing NJ line. Exit 172 is just after gas station on northbound lane.)

GILFER POLICIES
SHIPPING: All items are shipped via United Parcel Service (UPS), and are insured for the full value of the item. Other means of delivery may be arranged; please contact us before ordering for special shipping procedures. Receivers are double-boxed for maximum protection. Shipping charges for equipment are listed in this catalog in parenthsis next to price. For books, please add $2.00 for one book, $3.00 for two or more books.
RETURNS: We allow upgrading of equipment at no additional charge within 10 days of purchase. Other equipment returns are subject to 10% restocking fee. Books, antennas and software are NOT returnable. If you receive damaged books or software, we will REPLACE (only) at no charge.
ORDERING: We provide a toll-free phone line for orders only. Please have credit card and order ready before calling. Sorry, we will not answer any technical questions on the 800 line; please call (201) 391-7887 for technical assistance. Minimum phone order: $20.00. Mail orders must be accompanied by check or money order. Credit card backup will expedite personal check orders.
PRICES: All prices are subject to change without prior notification.

ORDER OPERATOR
1-800-GILFER-1
(1-800-445-3371)

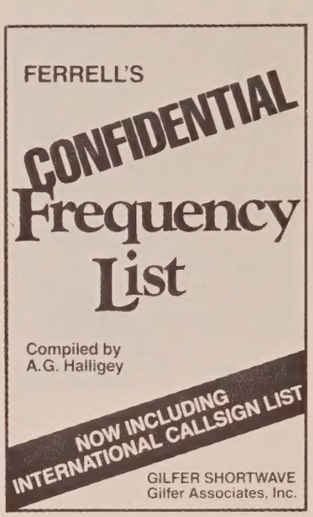
VISA MasterCard AMERICAN EXPRESS DISCOVER

FOR TECHNICAL ASSISTANCE, INQUIRIES, NEW JERSEY & AFTER 5 PM PLEASE CALL (201) 391-7887

GILFER SHORTWAVE STORE HOURS
Mon-Fri: 10 am - 5 pm
Sat: 10 am - 3 pm

GILFER BOOKS

FERRELL'S
CONFIDENTIAL FREQUENCY LIST, 7th ed.
BY GEOFF HALLIGEY
The most comprehensive book of its kind



Gilfer's famous guide to non-broadcast communications, a must for every radio enthusiast's library. Utility station coverage between 4 and 30 MHz. Over 30,000 voice, CW, RTTY and FAX frequencies. Covers Aeronautical, Marine, Embassy, Weather, Press, Broadcast Feeders, INTERPOL, Time Signals... and much more. All listings are by frequency and include call sign, location and other details. Also includes International List of Callsigns for easy station identification. Expanded details of scheduled press and weather broadcasts, time signals, navigation warnings and other material of interest to monitors. New multi-page ICAO Aeronautical Regions chart. Features the most comprehensive list of Maritime Coastal Stations, including every known CW station with over 250W output power, and every SSB station over 1 kW. Plus: Chart of 16 NAVAREAs, world Time Zone map, and extended List of Abbreviations.

GILFER PRICE $19.95

THE RADIO RECEIVER SERIES
BY RAINER LICHTE

Most of the equipment specifications one finds published in magazines and catalogs (including this one!) are provided by the manufacturers. Naturally these specs will be presented in a way to make the equipment in question seem to be the greatest thing since sliced bread. With RADIO RECEIVER - CHANCE OR CHOICE, and its sequel, MORE RADIO RECEIVER -CHANCE OR CHOICE, the consumer finally can discover the truth about the current crop of shortwave receivers. The first volume (224 pages) contains over 75 reviews of receivers, including:

- **Japan Radio Company NRD-505 and NRD-515**
- **Icom IC-R70 and IC-R71**
- **Yaesu FRG-7, FRG-7000, FRG-7700 and FRG-8800**
- **Sony ICF-2001, ICF-2003, ICF-2010**
- **Drake R-7/A and SPR-4**
- **and many more late-model SW receivers.**

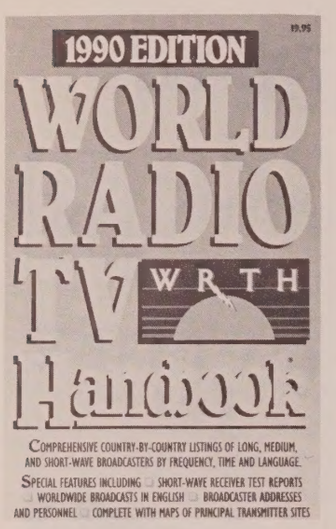
Included in the second volume (96 pages) are:

- **Japan Radio Company NRD-525**
- **Kenwood R-5000**
- **Icom R-7000**
- **Grundig Satellit 650 and Satellit 400**
- **Yaesu FRG-9600**
- **and 8 other current models**

All reviews are written in an understandable and not overly technical style by renowned (and commercially unbiased) German radio engineer Rainer Lichte. All tests were conducted by the author using state-of-the-art laboratory equipment, and an actual hands-on evaluation complements each test result.

GILFER PRICE: Both Books $18.50; "MORE" alone: $12.95

BOOKS

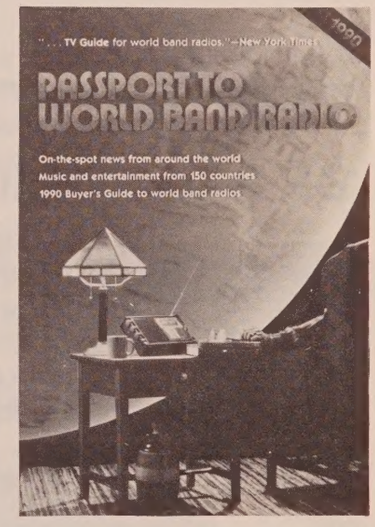

1990 EDITION
$19.95
WORLD RADIO TV Handbook
WRTH
COMPREHENSIVE COUNTRY-BY-COUNTRY LISTINGS OF LONG, MEDIUM, AND SHORT-WAVE BROADCASTERS BY FREQUENCY, TIME AND LANGUAGE
SPECIAL FEATURES INCLUDING SHORT-WAVE RECEIVER TEST REPORTS WORLDWIDE BROADCASTS IN ENGLISH BROADCASTER ADDRESSES AND PERSONNEL COMPLETE WITH MAPS OF PRINCIPAL TRANSMITTER SITES

WORLD RADIO TV HANDBOOK

The original "SWL's Bible" is a must for anyone with a shortwave radio. Contains details about every international and domestic radio broadcaster on the HF bands, plus coverage of worldwide mediumwave, FM and television stations. Country-by-country information includes governmental agencies, commercial and public networks, station personnel, transmitter locations, and more. Special sections: English language broadcasts to all of the worlds target areas; cross-reference list "by frequency;" schedule of DX programs; prediction of the years solar activity; receiver test evaluations. Page for page the most informative publication of its kind. 1989 edition available until December; 1990 edition available in January. Order now!

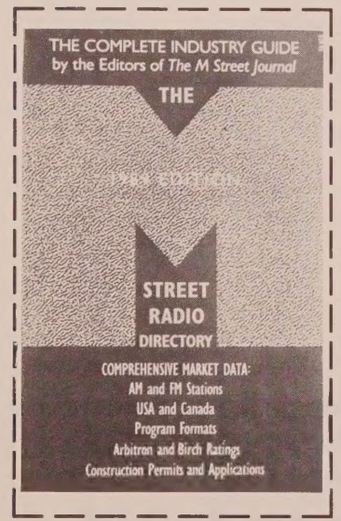
GILFER PRICE: $19.95

PASSPORT TO WORLD BAND RADIO


"... TV Guide for world band radios."—New York Times
1990
PASSPORT TO WORLD BAND RADIO
On-the-spot news from around the world
Music and entertainment from 150 countries
1990 Buyer's Guide to world band radios

The other "must" for SWBC listeners! Identify stations at a glance with the unique spectrum occupancy charts. Broadcast times and days, transmiter power, target areas and language shown for all stations between 2310 and 26050 kHz. Lots of introductory material, including thumbnail reviews of receivers, program recommendations, and various articles: even one on how to decipher the cricket games on BBC! The 1990 edition, published September 1989, in stock now. 384 pages

GILFER PRICE: $14.95



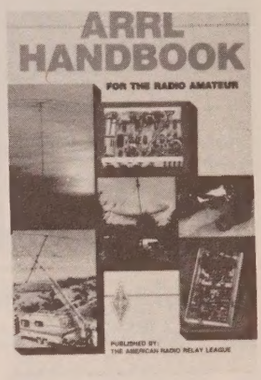
THE M STREET RADIO DIRECTORY

The only one-volume source for all the vital information about mediumwave and FM broadcast stations in the USA and Canada. Lists all stations by state and city, by call, and by frequency. Includes addresses, formats, personnel, networks, and Arbitron/ Birch-Scarborough ratings for hundreds of radio markets. Pending MW and FM applications listed. From the editors of the authoritative trade sheet, THE M STREET JOURNAL. No serious MW DXer should be without this book. Also great for travellers. 608 pages.

GILFER PRICE: $29.95

SHIPPING FOR BOOKS: ADD $2 FOR ONE BOOK, $3 FOR TWO OR MORE

THE ARRL HANDBOOK FOR THE RADIO AMATEUR, 1990 ed.



The book for Hams and technically-minded SWLs; and a superb reference for all radiophiles. Answers to any questions one may ask: How do I install an "N" connector?; What does the AGC button on my receiver do?; How long should I cut my antenna wire? Simply look it up! Includes chapters on Operating an Amateur Radio Station; Digital Communications; Assembling an Amateur Radio Station; Audio and Video; Modulation and Demodulation; Transmitting Principles; Receiving Principles; and much more. Includes many construction projects, from simple tuners and multi-meters to high performance communications receivers and full legal-limit power amplifiers. A gold mine of technical information. Hard cover only.

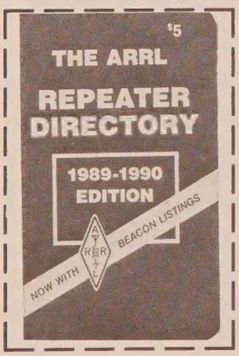
GILFER PRICE: $23.00

THE ARRL LICENSE MANUALS

Get your ham license with ARRL's help. These books are the best study material for the Novice, Technician, General, Advanced, and Extra exams, with preparation guides and multiple-choice Q&A's. Includes the entire FCC question pool: any question that may be on your actual test sheet is in these books! Well structured, the ARRL License manuals will take you from total beginner to Extral Class.

TUNE IN THE WORLD WITH HAM RADIO for Novice license (includes code tapes): $19.00
TECHNICIAN & GENERAL manuals: $6.00 each
ADVANCED manual: $5.00
EXTRA manual: $8.00

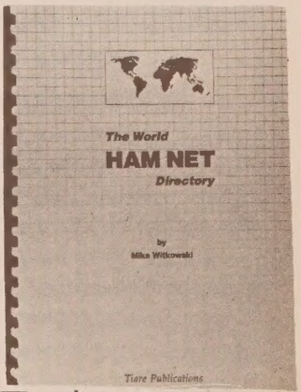
THE 1989/1990 ARRL REPEATER DIRECTORY



A comprehensive directory of US, Canadian and many worldwide amateur radio repeaters between 29 and 1300 MHz. New edition includes updated packet listings for digipeaters and Packet Bulletin Board Systems. Other info includes band plans, PL tones, and more.

GILFER PRICE: $5.00

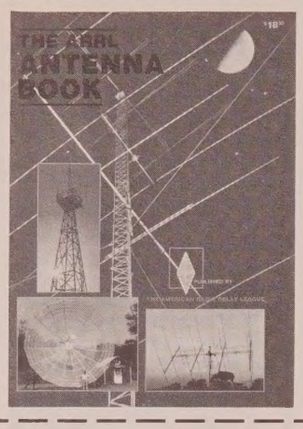
THE WORLD HAM NET DIRECTORY, by Mike Witkowski.



Thousands of Hams, from African missionaries to ex-Marines, meet in "clubs of the airwaves" regularly; and this directory will tell you how to find them, by net name, time, and frequency. Fun for the DXer as well as for the Ham operator.

GILFER PRICE: $9.95

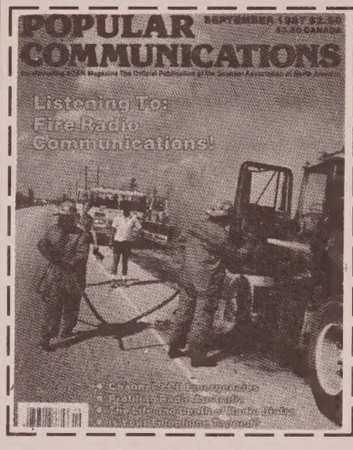
BOOKS



THE ARRL ANTENNA BOOK

New, expanded, 15th editionThe definitive reference book for antenna builders, now in it's 15th edition. Countless projects and construction tips on all types of antennas: HF, VHF, UHF, microwave, satellite. More than 950 figures and charts. A must for every radio library. An ARRL publication. Over 700 pages.

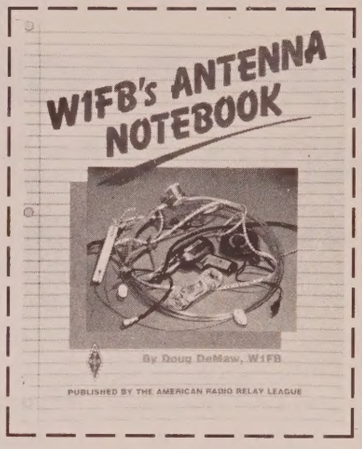
GILFER PRICE: $18.00



POPULAR COMMUNICATIONS

The exciting magazine for both shortwave listeners and scanner enthusiasts. Read articles by well known experts in the field. Check new lists of frequencies and broadcast schedules. Sold individually or by yearly subscription.

SINGLE ISSUE: $2.50
1 YEAR SUB.: $16.00

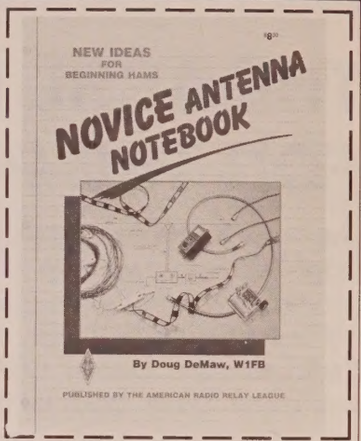


W1FB'S ANTENNA NOTEBOOK

by Doug DeMaw

Written primarily for the ham, it also has clear explanations of the theory behind many antenna types.
CHAPTERS INCLUDE: Some Fundamental Data; Building and Using Dipoles; Simple Vertical Antennas; Limited-Space and "Invisible" Antennas; Special Receiving Antennas; and more. 122 pages

GILFER PRICE: $8.00

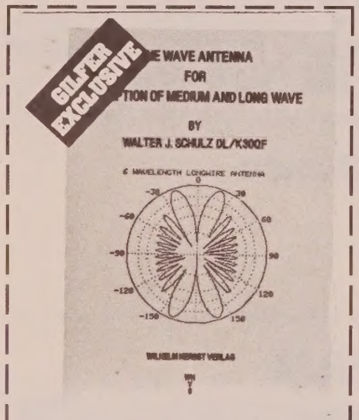


W1FB'S NOVICE ANTENNA NOTEBOOK

by Doug DeMaw

W1FB returns with a book designed for the beginning ham, with the most up-to-date ideas around.
CHAPTERS INCLUDE: Your Antenna's Personality; Selecting and Using Feed Lines; Dipoles; Beam Antennas; Loops and Straight Wires; Support Structures; more. 132 pages.

GILFER PRICE: $8.00

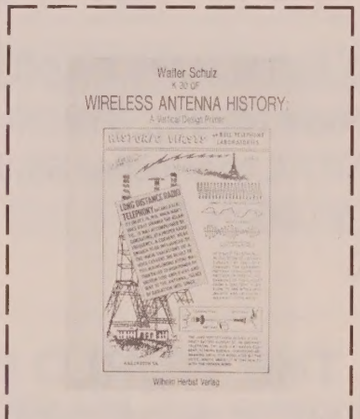


THE WAVE ANTENNA FOR MEDIUM AND LONG WAVE

by Walter Schulz

The theory and application of these specialized, spacious, but highly effective AM-DXing antennas. You may know of them as "Beverage" antennas. Thorough explanation, with lots of charts and illustrations. 36 pages.

GILFER PRICE: $7.95

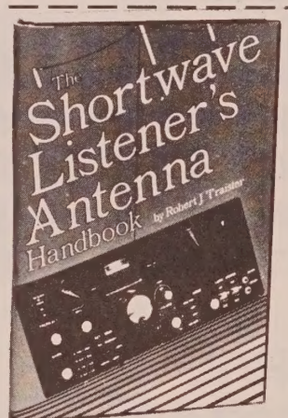


WIRELESS ANTENNA HISTORY: A VERTICAL PRIMER

by Walter Schulz

Surveys early antenna history, and discusses the theory and design of vertical antennas as first explored by Hertz and Marconi. Not for the beginner, but great for the technically inclined. Many historic photographs. 141 pages.

GILFER PRICE: $16.95

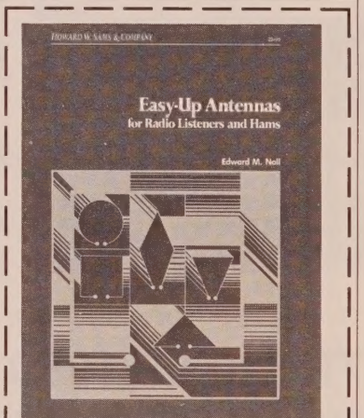


THE SHORTWAVE LISTENERS ANTENNA HANDBOOK

by Robert J. Traister

Includes descriptions of the different types of antennas, and a wealth of do-it-yourself material. CHAPTERS INCLUDE: Towers, Supports, and Counterweights; Ten Construction Projects; Portable Antenna Systems; Indoor and Limited-Space Antennas; and more. 204 pages.

GILFER PRICE: $12.95



EASY-UP ANTENNAS FOR RADIO LISTENERS AND HAMS

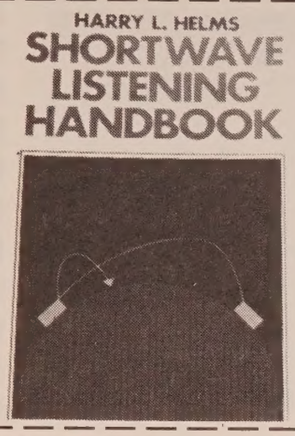
by Edward Noll

A thorough guide to building indoor and outdoor antennas, by an accomplished writer and radio technician. Excellent line illustrations and photographs. Includes VHF/UHF information, as well as detailed discussions for the SW Ham and broadcast band antennas. 166 pages.

GILFER PRICE: $16.95

SHIPPING FOR BOOKS: ADD $2 FOR ONE BOOK, $3 FOR TWO OR MORE

BOOKS



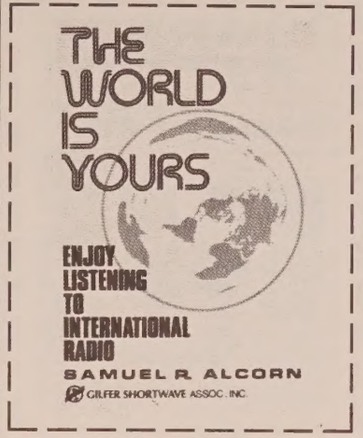
SHORTWAVE LISTENING HANDBOOK

by Harry Helms

A concise, smoothly-written survey, with the vast historical knowledge you'd expect from one of America's most accomplished veteran DXers.

CHAPTERS INCLUDE: Understanding the SW Spectrum; Domestic SW Broadcasting; Unusual and Mysterious Transmissions; more. Used as a textbook in some universities. 243 pages.

GILFER PRICE: $17.95

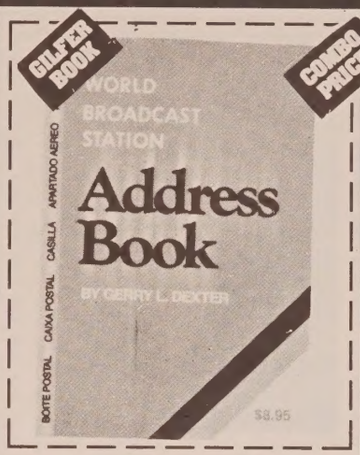


THE WORLD IS YOURS

by Samuel R. Alcorn

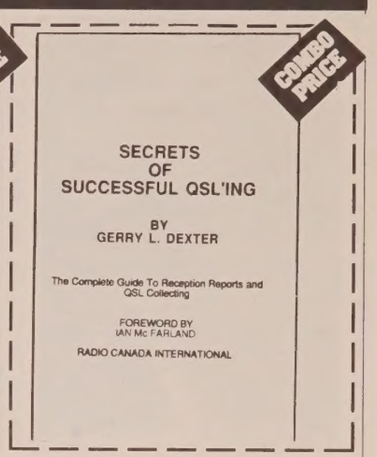
To learn why, how and when to listen to the world. What anyone needs as an overview of this new trend in radio listening. Readable, exciting, and at an unbeatable price. Covers equipment, broadcasters, world time conversion, and more. Band-by-band survey of what's on. Includes a current insert of English Language broadcasts.

GILFER PRICE: $5.95



WORLD BROADCAST STATION ADDRESS BOOK by Gerry Dexter

A complete country-by-country listing of over 1000 broadcasters. Not just where to write, but to whom. Grades each stations QSL return rate to indicate your chances of receiving verification. Written by the QSL King. 125 pages. Updated by Arthur Cushen **PRICE: $8.95**


COMBO PRICE
SECRETS OF SUCCESSFUL QSL'ING
BY GERRY L. DEXTER
The Complete Guide To Reception Reports and QSL Collecting
FOREWORD BY IAN Mc FARLAND
RADIO CANADA INTERNATIONAL

SECRETS OF SUCCESSFUL QSL'ING

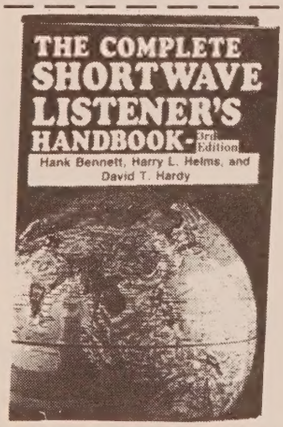
by Gerry Dexter

A chatty, anecdotal guide to reception reports and QSL collecting, by an acknowledged master.

CHAPTERS INCLUDE: Putting It Together; It's Greek to Me; Trying Times; and Trying Again. 113 pages.

GILFER PRICE: $9.95

SPECIAL: BROADCAST STATION ADDRESS BOOK and SECRET -- Together **$11.95.**



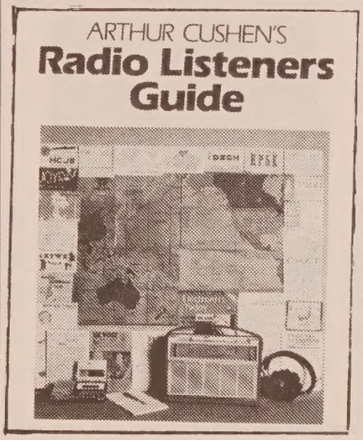
THE COMPLETE SWL'S HANDBOOK

by Bennett/Helms/Hardy

A fine survey which takes the reader through many aspects of the radio hobby; now in its 3d edition.

CHAPTERS INCLUDE: Receivers; Antennas; Reception by Continental Areas and Frequency; Utilities; TV/FM DXing; Time/Standard Frequency Stations; Amateur Radio; and much more. 360 pages.

GILFER PRICE: $16.95

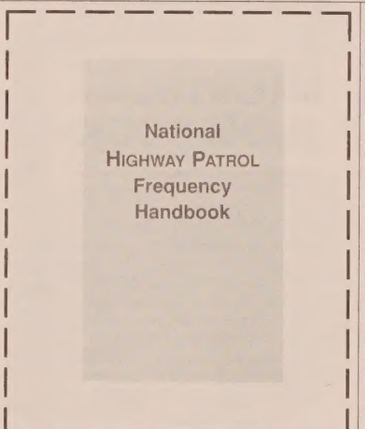


ARTHUR CUSHEN'S RADIO LISTENERS GUIDE

One of the world's best-known DXers describes many aspects of the world of radio through excerpts from his long-running newspaper column in New Zealand. Profusely illustrated.

INCLUDES: The Radio Listening Hobby; Mediumwave; DX Clubs; Conferences and Conventions; many personal reminiscences. 108 pages.

GILFER PRICE: $17.95



NATIONAL HIGHWAY PATROL FREQUENCY HANDBOOK

A comprehensive guide to state police radio communications in each of the 50 states. Complete with maps, channelization plans, identifiers and designators. A must for the cross-country driver or trucker. Includes an overview of federal and state VHF/UHF monitoring laws. 118 pages.

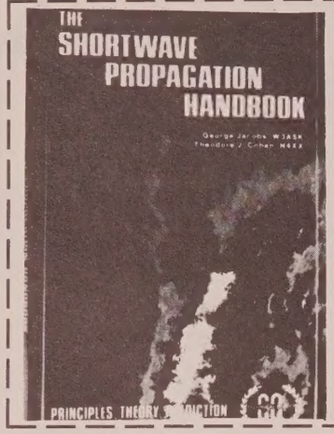
GILFER PRICE: $9.95

SHORTWAVE RADIO LISTENING WITH THE EXPERTS

25 accomplished DXers discuss their experiences in many aspects of the hobby.

CHAPTERS INCLUDE: Recognizing Languages; Tape Recording and Shortwave; Radioteletype Press Stations; DXing Indonesia; The VHF/UHF Action Bands; Pirates; Numbers Stations; The USSR; and more. 518 pages **GILFER PRICE: $19.95**

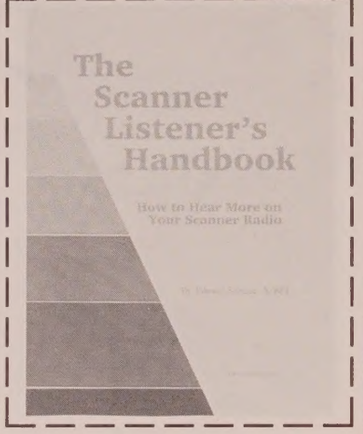
BOOKS



THE SHORTWAVE PROPAGATION HANDBOOK

by George Jacobs and Robert Cohen

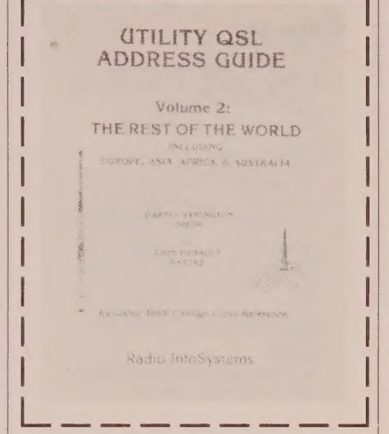
A primer on why radio waves act the way they do, and how knowledge of propagation patterns can help you get the most out of your receiver.
INCLUDES: The Ionosphere; Sunspots; Do-It-Yourself Propagation Charts; and more. 153 pages. **GILFER PRICE: $8.95**



THE SCANNER LISTENER'S HANDBOOK

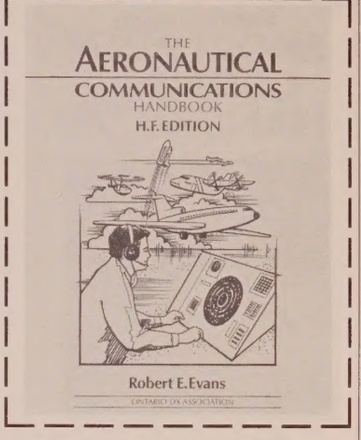
by Edward Soomre

At last, a one-volume guide to the world of VHF/UHF monitoring. CHAPTERS INCLUDE: Getting Started; Scanners and Receivers; Antennas; Computer Controlled Monitoring; Two-Way Radio Systems; Frequency Bands and Allocations; Monitoring Laws; CTCSS Tones; and more. 132 pages.
GILFER PRICE: $14.95



UTILITY QSL ADDRESS GUIDE, VOL. 1 & 2

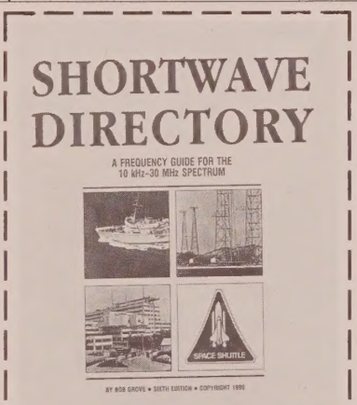
This two volume set contains thousands of addresses for all kinds of utility stations and agencies. Solid tips on how to QSL the utes. Background info on station types and services. Volume 1 (94 pages) covers the Americas; Volume 2 (96 pages) covers the Rest of the World.
GILFER PRICE: $12.95 each



THE AERONAUTICAL COMMUNICATIONS HANDBOOK

by Robert E. Evans

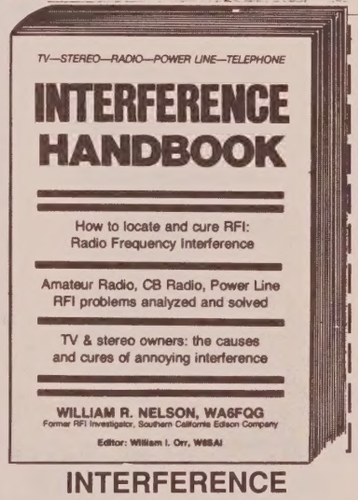
A thorough guide to how airplanes communicate with the ground and with each other. The author has lots of hands-on monitoring experience with commercial, military, civil, NOAA, NASA, and DEA air patterns, and explains it all in this well-researched primer. Over 230 pages.
GILFER PRICE: $19.95



SHORTWAVE DIRECTORY

by Bob Grove

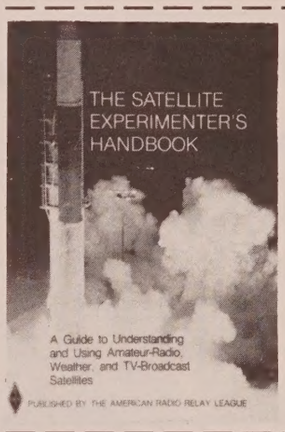
New Fifth ed. A unique utility directory. Lists stations by agency and service instead of by frequency. Covers US and worldwide military organizations, maritime services, US government stations (FEMA, FCC, Customs, etc.), and much more. A great companion to the Confidential Frequency List. 232 pages.
GILFER PRICE: $14.95


TV—STEREO—RADIO—POWER LINE—TELEPHONE
INTERFERENCE
HANDBOOK
How to locate and cure RFI:
Radio Frequency Interference
Amateur Radio, CB Radio, Power Line
RFI problems analyzed and solved
TV & stereo owners: the causes
and cures of annoying interference
WILLIAM R. NELSON, WA6FQG
Former RFI Investigator, Southern California Edison Company
Editor: William I. Orr, W6SAI

INTERFERENCE HANDBOOK

by William Nelson

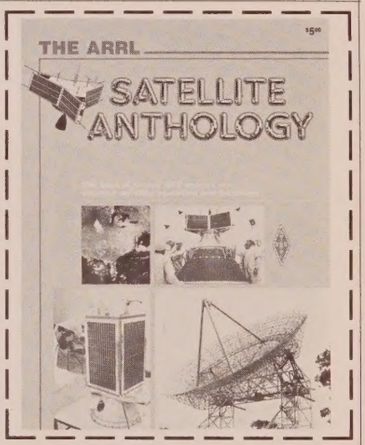
"This informative Handbook covers the entire field of RFI (Radio Frequency Interference) from A to Z. It was a tremendous help to me and my staff as we worked on communications legislation in Congress." - Senator Barry Goldwater, K7UGA. The newest (1988) edition of a classic reference work. 244 pages.
GILFER PRICE: $11.95



THE SATELLITE EXPERIMENTERS HANDBOOK

by Martin Davidoff

A popular primer on one of the hottest fields of Amateur communications, this is th bible of amateur satellite operations. Chapters on orbit calculations; weather and TV satellites; tracking basics; radio links; operating; and profiles of the OSCAR, Soviet RS satellites, and more. 208 pages.
GILFER PRICE: $10.00



THE ARRL SATELLITE ANTHOLOGY

This companion to the SATELLITE EXPERIMENTER'S HANDBOOK features many pertinent and interesting articles which have been reprinted from QST magazine. Excellent reading for the satellite enthusiast, with many new practical ideas. A must for those who are interested in the new era of OSCAR satellites, including the new OSCAR 13. 97 pages. **PRICE: $5.00**

SHIPPING FOR BOOKS: ADD $2 FOR ONE BOOK, $3 FOR TWO OR MORE

BOOKS

TIME SIGNAL HANDBOOK

by Gerd Klawitter

Country-by-country overview of the world's standard time and frequency stations. Not just another frequency list, but an in-depth guide which includes transmission formats, technical data, addresses, voice announcements, QSL information, and many tables and charts. 126 pages.
GILFER PRICE: $13.95

SCANNER MASTER

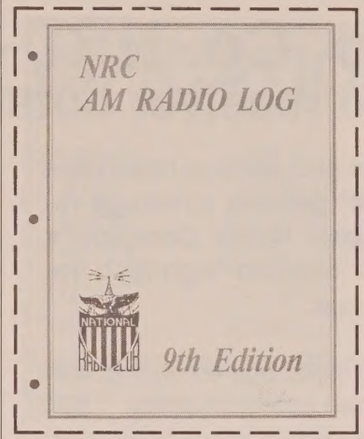
The most popular frequency directories among Northeastern scanner monitors.

NEW YORK METRO / NORTHERN NEW JERSEY, **$24.95**

PHILADELPHIA / SOUTHERN NEW JERSEY, **$12.95**

MASSACHUSETTS, **$9.95**

BALTIMORE / WASHINGTON, **$16.95**



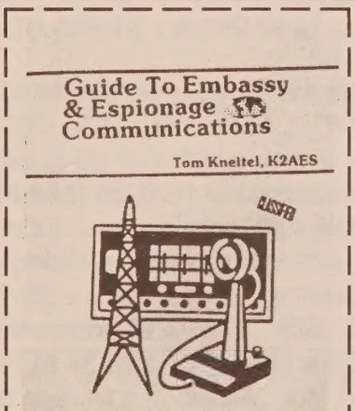
NATIONAL RADIO CLUB AM RADIO LOG

9th Edition. A by-frequency listing of every AM station in the USA and Canada, giving power, formats, hours of operation, and a wealth of other information. Exhaustive presentation by America's oldest AM DX club. Binderless, 3-hole punched; regularly updated.
GILFER PRICE: $13.95

FM ATLAS AND STATION DIRECTORY

by Bruce Elving

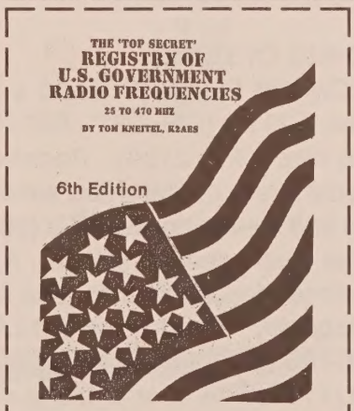
New 12th edition. 65 pages of maps, plus by-state and by-frequency listings of every FM station and translator in the USA, Canada, Puerto Rico, and the Virgin Islands. Thoroughly researched; indispensable for the traveler and the FM DXer. 160 pages in all.
GILFER PRICE: $9.95



GUIDE TO EMBASSY & ESPIONAGE COMMUNICATIONS

by Tom Kneitel

This book explores the world of diplomatic radio communications, including modes of encryption, "numbers stations," etc. CHAPTERS INCLUDE: Imbued with Immunity; Embassy Networks; and more. Especially recommended for RTTY monitors. 168 pages.
GILFER PRICE: $10.95



REGISTRY OF U.S. GOVERNMENT RADIO FREQUENCIES

by Tom Knietel

6th Edition. The most comprehensive nationally-oriented book for scanner monitors. Covers federal agencies by frequency; FAA air traffic control centers; military and federal installations; satellites; and much more, from 25 to 470 MHz. A "must" companion for every scanner owner. 120 pages.
GILFER PRICE: $17.95

AIR SCAN GUIDE TO AERONAUTICAL COMMUNICATIONS

by Tom Kneitel

4th Edition. A thorough directory of aircraft frequencies. Lists enroute frequencies, main airport channels, FAA centers, and more. The introduction contains a useful survey of what you can find on the HF and VHF air bands. 120 pages. **GILFER PRICE: $10.95**

TUNE IN ON TELEPHONE CALLS

by Tom Kneitel

Explains the different types of telephone conversations that use the shortwave and VHF/UHF bands, including ship-to-shore, remote area systems, rail and air phone patches, cellular telephones, and more. 160 pages.
GILFER PRICE: $12.95

SHIPPING FOR BOOKS: ADD $2 FOR ONE BOOK, $3 FOR TWO OR MORE

Japan Radio Co. NRD-525

The number one receiver outside the commercial bracket

Considered by professionals and serious hobbyists to be the most advanced HF general coverage receiver under $2000.00, Japan Radio Company's NRD-525 offers the best in modern high-tech receiver design and performance.

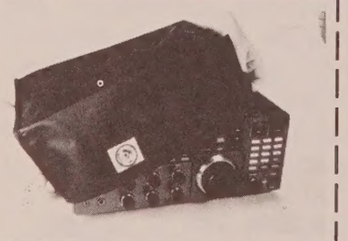
* 90 kHz to 30 MHz frequency coverage combined with direct entry keypad for increased tuning flexibility * 200 tunable memory channels allow you to store frequency, mode, bandwidth and AGC settings * All modes: AM, USB, LSB, CW, FAX, RTTY & FM * Standard IF bandwidths of 2 and 4 kHz, with room for two optional filters * Microprocessor control of all vital functions, including frequency, memory, bandwidth, mode and AGC settings * Synchrophase detection enhances reception of AM signals and helps to reduce the effects of carrier distortion and fading * Vacuum fluorescent front panel display indicates frequency, mode, bandwidth, AGC, attenuator and clock/timer settings, and also incorporates an incredibly accurate digital signal strength meter * Passband tuning, IF notch filter and dual-width noise blanker for combating interference from nearby signals and electrical noise sources * Advanced construction techniques centering around a modular design. All high-quality components are mounted on plug-in circuit boards, facilitating the easy addition of options.

GILFER PRICE: $1159.00 (+$12)

List Price: $1365.00

NVA-88 External Speaker

ST-3 Headphones



Dust Cover

NRD-525 OPTIONS:

* **IF Crystal Filters ($129.00 + $2)** available in various bandwidths: 300 Hz (CFL-231), 500 Hz (CFL-232), 1 kHz (CFL-233) & 1.8 kHz (CFL- 218A). Receiver allows addition of up to two optional filters * **Matching external speaker NVA-88 ($59.95 + $5) and Headphones ST-3 ($69.95 + $3)** provide great sound for the discriminating listener. An external speaker is strongly recommended in order to take advantage of the 525's superb audio quality * **Dust Cover ($12.95 +$2)** * **VHF/UHF Converter CMK-165 ($359.00 + $4)** adds 3 frequency ranges: 34 to 60 MHz, 114 to 174 MHz & 423 to 456 MHz. All-mode coverage of these bands lets one monitor local police & fire, 6M, 2M & 440 MHz amateur bands and OSCAR satellites, marine and aeronautical communications, and much more. * **PC interface CMH-532 ($99.95 + $4)** allows user to connect to any RS-232C port. Connecting an external computer enables control of all of the receiver's microprocessor functions for unlimited versatility. **RS-232C cable ($69.95 +$4)** also available. Software available from several sources, including TRS Consultants and Datacom. Requires above interface. Please call our technical assistance number, (201) 391-7887, for ordering information * **RTTY Demodulator CMH-530 ($139.95 + $4)** mounts internally and allows reception of Baudot radioteletype at several shifts and speeds. Output is for standard Centronics-compatible printers. **Printer cable ($59.95 +$4)** *

NRD - 525 SPECIFICATIONS

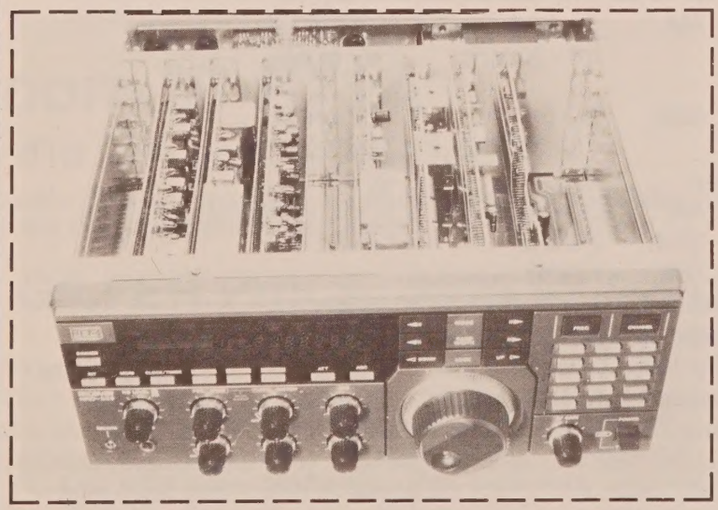
Frequency Range: .09 - 34 MHz (with optional CMK-165 V/UHF Converter: 34 - 60 MHz, 114 - 174 MHz, 423 - 456 MHz)

Modes: AM, USB, LSB, CW, FM, RTTY & FAX

Receiving system: Double superheterodyne, 1st IF 70.45399 to 70.45300 MHz, 2nd IF 455 kHz.

Sensitivity: 10 dB S/N, AF output = 100 mW, Bandwidth = INTER, modulation = 400 Hz, 30% (AM), NQL = 20 dB (FM), antenna impedence = 50 ohms

AM:	
.09 - 1.6 MHz	15 uV
1.6 - 34 MHz	2 uV
34 - 60 MHz	3 uV
114 - 174 MHz	3 uV
423 - 456 MHz	3 uV
SSB/CW/RTTY/FAX:	
.09 - 1.6 MHz	5.0 uV
1.6 - 34 MHz	0.5 uV
34 - 60 MHz	1.0 uV
114 - 174 MHz	1.0 uV
423 - 456 MHz	1.0 uV
FM:	
1.6 - 34 MHz	0.7 uV
34 - 60 MHz	1.5 uV
114 - 174 MHz	1.5 uV
423 - 456 MHz	1.5 uV



Selectivity:	6 dB	60 dB
AUX	12 kHz or more	##
WIDE	4 kHz or more	10 kHz or less
INTER	2 kHz or more	6 kHz or less
NARR	##	##
FM	12 kHz or more	- - - - -

(## open position, without optional filter installed)

Image frequency rejection: 70 dB or more

Frequency stability: +/-3 PPM

Dynamic range: 100 dB or more

PBS variation range: +/-1 kHz or more

Notch attenuation: -30 dB or more

BFO variation range: 455 kHz +/-2 kHz or more

RIT variation range: +/-5 kHz or more

Nominal antenna impedence:

.09 - 34 MHz	50 ohms (Lo-Z terminal)
	600 ohms (Hi-Z terminal)
Above 34 MHz	50 ohms (VHF and UHF terminals)

AF output:

Speaker	0.5 W or more at 4 ohm load, 10% distortion
Line output	1 mW or more at 600 ohm load, 10 % distortion

Antenna attenuation: Appr. 20 dB HF, 10 dB V/UHF

AGC Characteristic: Output variation is 10 dB or less for antenna input variation of 3 uV to 100 uV

Power supply: 100/120/220/240 VAC +/-10% max 35VA; 12 - 16 VDC, max 25W

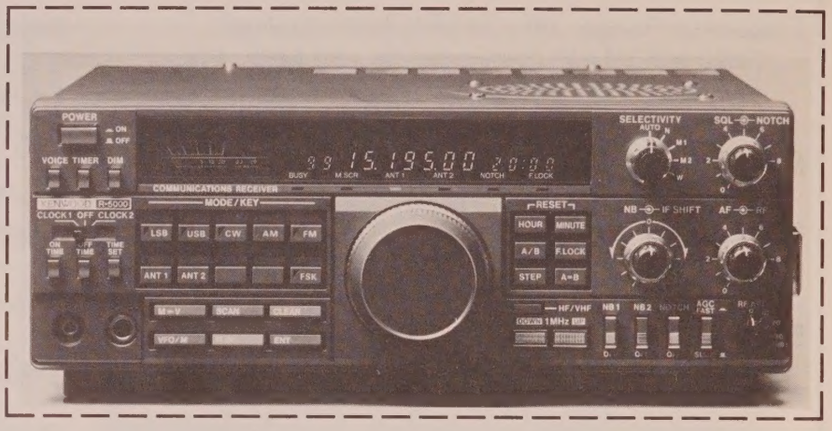
Dimensions (approx): 13(W) x 5.5(H) x 11(D) inches, excluding projected parts

Weight (approx): 16.5 lbs.

Kenwood R-5000

The best value in a high performance receiver

Kenwood's R-5000 is the receiver of choice in the under-$1000 price class. The R-5000 excels in an area which is often overlooked by today's manufacturers: audio quality. With the optional YK-88A-1 AM filter, the R-5000 is simply the best sounding receiver of its kind for listening to music and news programs from the world's many international shortwave broadcasters. Furthermore, DXing performance is not forsaken in lieu of great sound. The R-5000 is just as impressive a radio for SSB, CW and RTTY as it is for AM.



* Frequency coverage of 100 kHz to 30 MHz * Direct frequency entry * 100-channel memory bank with several scan functions. Stores frequency, mode and antenna settings * All modes: AM, USB, LSB, FSK & FM * IF shift, notch filter, and dual noise blankers eliminate interference from adjacent stations and electrical line noise * Automatic selection of bandwidth filters comes in handy when switching modes. For example, if you're in the AM mode, the set automatically selects the AM filter. If you switch to CW, the set switches to the CW filter if installed; if not, it picks the narrowest filter available. Likewise for SSB. Of course, you may override this at any time and, say, select the AM filter in the CW mode or a narrower SSB filter while in the AM mode * Three-step attenuator helps prevent overloading caused by strong nearby transmitters. Step down the RF input levels by 10, 20 or 30 dB * Rechargeable memory backup battery eliminates the need to re-enter your favorite frequencies when the AA cells run down. And, unlike other receivers on the market, the radio's microprocessor doesn't go dead when the battery does * Dual antenna inputs are selectable from the front panel. No more fumbling with the rear of the set to choose the proper antenna.

GILFER PRICE: $849.95 (+$10)

List Price: $1049.95

R-5000 OPTIONS:

* **Crystal IF Filters ($86.95 +$4)** of varying bandwidths: 6 kHz for AM mode reception (YK-88A-1); 1.8 kHz SSB filter (YK-88SN); and 500 Hz (YK-88C) or 270 Hz (YK-88CN) for CW and RTTY applications * **VC-20 VHF Converter Unit ($184.95 +$5)** adds coverage of the 108 - 174 MHz VHF band to the R-5000. Listen in on local Police, Fire, Ambulance and Public Service agencies as well as VHF aeronautical and marine communications, 2 meter ham operators, and much more * **DCK-2 DC Power Cable Kit ($12.95 +$3)** for 12 volt DC operation. Includes connector for cigarette lighter * **HS-5 Deluxe Headphones ($64.95 +$5)**. Great sound and amazingly comfortable * **SP-430 External Speaker ($65.95 +$5)** provides excellent audio, and matching cabinet looks great, too! * **IF-232C Computer Interface Unit ($94.95 +$4) & IC-10 Integrated Circuit Kit ($34.95 +$3)** enables the R-5000 to be controlled by personal computer via RS-232C port. Software by TRS Consultants, Datacom, and others for computer control also available (Requires IF-232C & IC-10.) * **Dust Cover ($8.95 + $2)** keeps your receiver looking like new *

R-5000 SPECIFICATIONS

Frequency Range: .1 - 30 MHz, *108 - 174 MHz (* with optional VC-20 converter)
Modes: AM, USB, LSB, CW, FM, and FSK (RTTY)
Receiving system: Double conversion superheterodyne*. 1st IF 58.1125 MHz, 2nd IF 8.83 MHz. (*3rd IF (FM Mode only) 455 kHz)
Sensitivity: 10 dB S/N, modulation = 30% (AM)

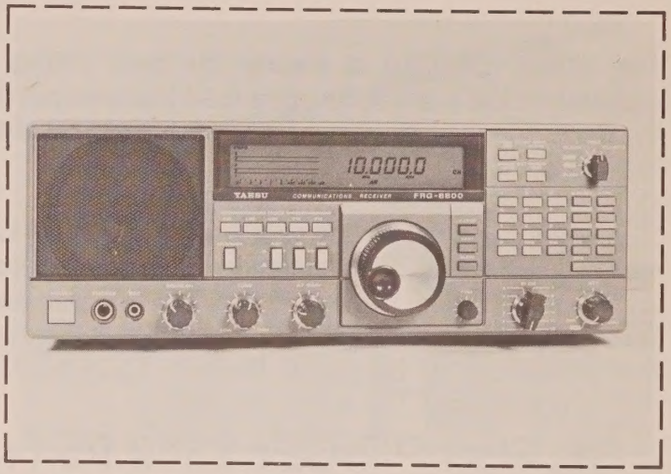
AM:	.5 - 1.6 MHz	16 uV or less
	1.6 - 30 MHz	2 uV or less
SSB	.5 - 1.8 MHz	4 uV or less
	1.8 - 30 MHz	.25 uV or less
Selectivity:	-6 dB	-60 dB
AM*:	6.0 kHz	11 kHz (*optional)
SSB:	2.4 kHz	4.4 kHz
FM:	12 kHz	- - - - -

IF Rejection: 70 dB or more (1.8 - 30 MHz)
Image Ratio: 80 dB or more (1.8 - 30 MHz)
Nominal antenna impedence: Ant 1 (PL-259) 50 ohms , Ant 2 (screw terminals) 50 or 500 ohms
AF output:: 1.5 W at 8 ohm load, 10% distortion
Power supply: 120 VAC +/-10%, 13.8 VDC +/-15% (w/optional DCK-2)
Dimensions (approx): 10.6(W) x 3.8(H) x 10.6(D) inches, excluding projected parts
Weight (approx): 12.3 lbs.

Yaesu FRG-8800

Our lowest priced table top receiver

The Yaesu FRG-8800 is the first choice of those who want quality reception and performance without applying for a second mortgage. Full coverage together with direct entry digital tuning makes this one of the best bargains on the SW receiver market. For more serious applications, Gilfer offers their famous filter modifications, and will swap one or both of the 8800's filters for sharper, higher quality ceramic filters.



* Frequency coverage from 150 kHz to 29.999 MHz with direct-entry keypad,12 memory channels and three scanning modes * All modes: AM, USB, LSB, CW and FM, all push-button selectable * Large backlit LCD display shows frequency with 100 Hz resolution, and incorporates a unique bar graph digital S meter * Selectable AGC, noise blanker and tuning rate controls ensure comfortable listening and easy operation even under adverse band conditions * Intermediate Frequency filter bandwidths of 6 kHz (AM Wide) and 2.7 kHz (AM Narrow and SSB) are selectable by the user via front panel control button. For optimum CW reception, an active audio peak filter can be engaged for extremely sharp response * Two 24-hour clocks and an on/off timer are provided, as well as automatic power switching of auxiliary recording equipment * CAT (Computer Aided Tuning) port provides a direct link to the 8800's 8-bit CPU. When used with the optional FIF-232C interface, control of the radio via personal computer is possible.

GILFER FILTER MODS

Improve the selectivity of the FRG-8800 by ordering Gilfer's famous filter replacements.

Mod A: Replace 6 kHz Wide filter with a sharper 4.0 kHz ceramic filter. $80.00.

Mod B: Replace 2.7 kHz Narrow filter with a sharper 2.0 kHz ceramic filter. $80.00.

Mod C: Replace both filters. $110.00.

GILFER PRICE: $699.95 (+$10)

List Price: $784.00

Optional accessories include:

* **FRV-8800 VHF Converter ($99.95)** adds coverage of the 118 - 174 MHz VHF band used by numerous public safety agencies, amateur radio operators, NOAA weather stations, etc. * **FRA-7700 Active Antenna ($59.95)** covers .15 - 30 MHz in 6 bands. Features 1.2m telescoping whip and solid-state preamplifier * **FRT-7700 Antenna Tuner ($75.95)** covers entire range of the 8800 and matches the impedance of the antenna to the receiver's input. Features 4-step attenuation and switches between two antennas. **YH-55 & YH-77 Headphones ($24.95 +$4)** provide great sound with comfort * **Dust Cover ($8.95 + $2)**

Icom IC-R71A

Fine DX performance

Icom's R-71A is available by special order from Gilfer. One of the finest receivers for SWBC and Utility DXing.

GILFER PRICE: $899.95 (+$12)

List Price: $999.95

R71A OPTIONS

RC-11 Remote Control ($66.95 + $3) * CK-70 DC Cable Kit ($12.95 + $3) * SP-3 Speaker ($63.95 + $5) * EX-310 Speech Synthesizer ($59.95 + $3) * EX-257 FM Board ($45.95 + $3) * FL-44A SSB Filter ($174.95 + $3) * FL-32A 500 Hz CW Filter ($64.95 + $3) * FL-63A 250 Hz CW Filter ($54.95 + $3) * CR-64 Hi-Stability Crystal ($74.95 + $3) * Dust Cover ($8.95 + $2)

HF PORTABLES

SONY ICF-2010

Affordable hi-tech performance in a portable

The SONY ICF-2010 is clearly the best DXing portable receiver on the market. Its advanced features put it close to the performance category of many table top receivers costing more.

* Dual PLL quartz frequencysynthesis for precise tuning and rock-steady stability * 32 memory channels for storing your favorite frequencies * Synchronous AM detection (see below) enhances reception and eliminates distortion caused by fading * Dual selectable AM bandwidth filters * 12/24 hour clock and multi-function timer *

GILFER PRICE: $349.95 (+$6)

List Price: $449.95

ICF-2010 SPECIFICATIONS

Frequency range 150 - 29999 kHz (LW/MW/SW), 76- 108 MHz (FM) and 116 - 136 (Air)
Selectivity (6/60 dB) Wide 4.8/16.2 kHz. Narrow 2.5/6.8
Sensitivity (10 dB S+N/N AM 400 Hz, 40% modulation, narrow filter) 500 kHz: 35 uV, 1 MHz: 30 uV, 5 - 30 MHz 1.4 uV or better.
Power reqirements 4.5 VDC (3 D-cells) or supplied 120 VAC/ 4.5 VDC converter
Dimensions: 6 1/4" x 11 3/8" x 2 1/16 " (W x H x D)
Weight 3.3 pounds w/batteries

AVAILABLE OPTIONS:

Falcon Nest Travel Case II ($32.95 + $3) provides stylish waterproof protection and room aplenty for your 2010 and accessories. Made in the USA by Tenba, and includes 5-year warranty against manufacturing defects.Color: black. Size: 12" x 8" x 4", big enough to fit Sangean ATS-803, Uniden 2021, Sony 2001, etc. * Our famous waterproof **Falcon Hood Dust Cover ($12.95 + $2)** keeps coffee, pet hairs, ashes and other household delights out of the radio.Color: black. * **DCC-127A Car Battery Cord ($29.95 + $3)** has cigarette lighter plug and multi-voltage settings to power any portable radio that requires between 4.5 and 12 VDC * **AN-1 Active Antenna ($84.95 + $4)** was designed especially for portable receivers. Reduced gain prevents overloading of sensitive RF sections of today's portables *

Dust Cover

Travel Case II

WHAT IS SYNCHRONOUS DETECTION?

Synchronous detection is an ingenious method of processing an AM signal to improve audio quality and reduce interference from adjacent stations. An AM carrier consists of a carrier and two identical sidebands. In layman's terms, the sidebands are what carry the information (voices, music, whatever), while the carrier is what the receiver uses to 'detect' the information. Under typical conditions that occur on the shortwave bands, the carrier is subject to distortion and other forms of interference. This leads to a degradation in the quality of the received signal. The Sony 2010's Synchronous detector alleviates this carrier distortion by phase-locking the signal's own carrier, suppressing it, and re-injecting another carrier that is generated by the radio itself. The new carrier is not travelling thousands of miles through the Earth's rather unsettling geomagnetic field, and therefore much better reception is achieved. In addition, the user is able to choose the better of the two sidebands. Although they are identical when they start out, one sideband will almost always be better than the other by the time they reach your antenna. Synchronous detection makes the Sony ICF-2010 the most advanced portable today; a small receiver with big performance!

SONY ICF-2003

The original PLL synthesized travel portable

Small size and excellent features make the Sony 2003 ideal for vacations and business trips. The first shortwave travel portable to feature digital frequency readout and direct entry keypad.

* Frequency coverage: 150 - 29995 kHz, plus 87.5 - 108 MHz FM * BFO allows reception of SSB and CW * 10 instant recall memory channels * `12/24 hour clock with timer and sleep functions * External antenna input * Up-down tuning buttons * Tape measure-style wind-up antenna AN-6 included * Outboard battery pack holds C-cells for longer operating times * **For optional AC power supply, please order Panasonic RP-63 ($10.95 + $3)**

GILFER PRICE: $259.95 (+$5)

List Price: $319.95

SONY ICF-PRO80

Broad-band handheld portable

Sony's incredible PRO-80 is a handheld portable that does it all LW, MW, SW and VHF reception makes this the portable with the most coverage. Great for travelers, pilots, mariners, and anyone who would rather carry one radio instead of several individual units.

* Frequency coverage from 150 kHz to 108 MHz, plus 108.15 to 216 MHz with supplied converter * Direct entry tuning * 40 Station memory capability * Automatic and Manual squelch control * BFO for SSB reception * Wide and Narrow bandwidths for optimum SWBC reception * Includes clear-front carrying case, telescoping antenna, shoulder strap, TNC to BNC antenna adapter * Requiires 4 AA cells. For 117 VAC use, we recommend **Panasonic's RP-63** DC power supply **($10.95 +$3)** *

GILFER PRICE: $379.95 (+$5)

List Price: $499.95

SONY ICF-SW1

Miniature shortwave portable with many large features

A marvel of engineering, the SW1 is the smallest PLL synthesized shortwave radio on Earth. Alone, it will fit in a shirt pocket. With the included active antenna, multi-voltage power supply and stereo headphones, the whole system packs nicely into the supplied hard plastic travel case. A fantastic package for the traveling SWL.

* Frequency coverage: 150 kHz to 30 MHz (AM), plus 88 to 108 MHz (FM) * Direct-entry keypad tuning, plus up/down buttons tune in 5 kHz steps (on SW bands; 9 or 10 kHz on MW) * Stereo FM reception with supplied headphones * Clock and Timer built in * No options: everything included for a single price!

GILFER PRICE: $289.95 (+$5)

List Price: $359.95

HF PORTABLES

Panasonic RF-B65

A world class travel portable

The Panasonic RF-B65 features five different tuning mechanisms: 1) 36 memory presets. 2) Direct-access keypad tuning—enter stations like you were using a touch-tone telephone. 3) Meter-band direct access keypad tuning—call up any of the ten bands, or "regions," where the shortwave broadcasters can be found, and scan through them individually to see what's on. 4) Up/Down manual tuning—for quickly scanning parts of a band. 5) Tuning knob—for precise 1 kHz tuning steps or leisurely bandscanning.

Other features include:
* BFO tuning for single-sideband Ham and utility stations
* Double clock/timer: Set one clock for local time, the other for 24-hour Universal time; or set them any way you like * Sleep/Standby: Drift off to sleep, knowing that your Panasonic will turn itself off...and turn itself back on when you want to wake up.

Coverage: Longwave/Mediumwave/Shortwave, 153 kHz - 29,999 kHz continuous. FM, 88.1 - 107.9 MHz.

GILFER PRICE: $269.95 (+$5)

List Price: $349.95

Panasonic RF-B40

Similar performance and advanced technology as is found in the RF-B65, but without some of the fine tuning and without SSB capabilities. A worthy choice for the traveler, the beginner, or the economy-minded shortwave listener.

* Covers LW, MW, SW and FM (146-288 kHz, 520-1610 kHz, 1615-29995 kHz, and 87.5-108 MHz) * 27 station presets *

GILFER PRICE: $189.95 (+$4)

List Price: $229.95

POWER REQUIREMENTS

The Panasonic B65/B40 and Sony 2003/PRO80 run on 4 AA batteries. The B65 & 2003 also requires 2 additional AA batteries for clock/memory backup. Batteries must be purchased separately.

An optional 120 VAC to 6 VDC power supply (model **RP-63**) is available for the B65, B40 & 2003 **($10.95 + $2)**. (No shipping charge if ordered with radio.)

SONY ICF-SW20

A new affordable analog shortwave portable

Following in the footsteps of its predecessor, the ICF-4920, this new portable from Sony is ideal for those who want to be able to tap the SW bands for up to date news, anywhere, anytime, without lugging around a unneccessarily large receiver.

* 9 bands: 49, 41, 31, 25, 19, 16 & 13 meters, plus MW & FM * Dual superheterodyne receiving system * 2-way tone control * 2-3/5" speaker * Powered by 2 AA-cells * Includes soft case and earphones * Size: 4-3/8" x 2-3/4" x 1" (W x H x D)

GILFER PRICE: $99.95 (+$5)

List Price: $109.95

Grundig Satellit 500

Newest hi-tech portable

The Satellit 500 is a happy marriage of the classic Grundig audio quality with beuatiful European styling and today's advanced features. A winner by any standard.

* Frequency coverage: 148 - 353 kHz (LW), 510 - 1620 (MW), 1.6 - 30 MHz (SW) and 87.5 - 108 MHz (FM) * 42 memory channels * Selectable USB and LSB for amateur and utility monitoring * Synchronous AM detection improves reception on crowded bands and helps combat the effects of signal fading * Wide/Narrow bandwidths * Direct-entry digital tuning with multi-function LCD display * Dual clock with timer * Telescoping and ferrite antennas plus external antenna connector * Power requirements: 110-127/ 220-240 VAC, 50/60 Hz; 4 D-Cells (6 VDC); built-in Ni-Cad accu-charger; external DC supply (10-16 VDC) * Size: 304 x 178 x 66

GILFER PRICE: $475.00 (+$6)

List Price: $599.00

Grundig Satellit 650

German engineering at its best!

One of our largest (almost 19 lbs.) receivers, and the one with the best sound quality, the Satellit 650 is a receiver that the program listener should certainly consider.

* Keypad entry, as well as manual tuning * 60 memory channels (32 are dedicated to shortwave) * Automatic preselector * Clock-timer-calendar * LCD frequency display * Continuous tuning from 150 kHz to 30 MHz; FM coverage from 88 - 108 MHz * Three bandwidths: * BFO for sideband demodulation * **Optional NiCad battery pack ($49.95 + $4)**

GILFER PRICE: $899.95 (+$12)

List Price: $999.95

Kenwood RZ-1

The ultimate car radio

Wide-band coverage and compact size makes this an ideal choice for mobile shortwave and VHF/UHF monitoring. Alphanumeric memos for each of the 100 channels let you identify stations at a glance.

* Frequency coverage: 500 kHz to 905 MHz, continuous * Modes: AM and FM Wide/Narrow * Scan any bank of 10 channels, or choose 1 of 10 programmed scan ranges to sweep * Direct-entry and dial tuning * Multiple scan functions * NTSC Video output * DIN-size chassis allows in-dash mounting. Under-dash installation also possible with supplied mounting brackets * Dual antenna inputs for PL-259 and/or Motorola-type connectors * Rubber feet for table-top use * Power requirements: 12 VDC @ less than 1A * Dimensions: 7.09" x 1.97" x 6.22" (W x H x D) * Weight: 3.31 lbs *

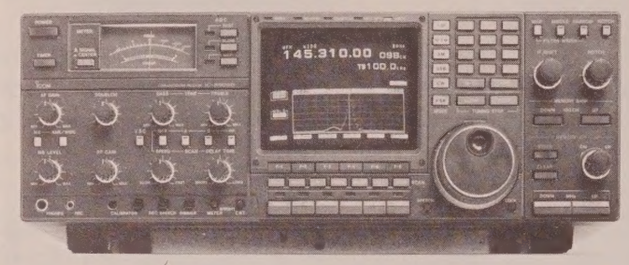
GILFER PRICE: $499.00 (+$5)

List Price: $599.95.00

HF/VHF RECEIVERS

Icom IC-R9000

PLEASE CALL FOR SPECIAL ORDERING INFORMATION



Icom's new R9000 is the dream receiver of the 90's. Coverage from longwave to microwave combined with advanced features and impressive performance will put this rig at the top of every serious DXer's wish-list.

* Frequency coverage: 100 kHz to 2 GHz * Multi function CRT displays not only frequency, mode and memory channels, but also functions as a spectrum scope (25, 50 or 100 kHz bandwidths), terminal monitor for digital communications, and can even be used to watch TV by connecting to the R9000's NTSC output! * 1000 memory channels (10 banks of 100) * Multi- function scanning, including programmed scan, auto-write scan, all-memory scan, selected- memory scan, selected-mode scan, priority scan and more * Direct Digital Synthesizer assures widest dynamic range, lowest noise and rapid scanning * CI-V computer interface includes new commands and functions, such as AF and RF gain control, squelch level control and S-meter reading * Modes: AM, USB, LSB, CW, FSK and FM Wide/Narrow * IF Shift, Notch Filter and adjustable Noise Blanker help cope with any type of interference

R9000 Specifications

Frequency Range: 100 kHz to 1999.8 MHz
Selectivity: 6 kHz (AM), 2.4 kHz (SSB), 500 Hz (CW), 6, 15 & 30 kHz (FM Narrow) and 150 kHz (FM Wide)
Sensitivity: .16 uV (below 30 MHz), .32 uV (above 30 MHz)
Power requirements: 110-120 VAC, 60 Hz
Dimensions: 16.7" x 5.9" x 14.4" (W x H x D)
Weight: 44.1 lbs.

GILFER PRICE: $4795.00 (+$30)

List Price: $5459.00

R9000 OPTIONS: * **SP-20 External Speaker ($139.95 +$6)** matches the styling of the R9000 and provides audio filtering for exceptional sound * **CT-17 Computer Interface ($89.95 +$4)** for computer control of the R9000. Software available * **UT-36 Voice Synthesizer ($33.95 + $4)** gives verbal indication of frequency and mode * **CK-70 DC Cable Kit ($12.95 + $3)** allows for 12 VDC operation * **CT-16 Satellite Interface ($89.95 + $4)** links the R9000 with other Icom transceivers for OSCAR satellite operations

Sony CRF-V21

Feature-packed portable

Sony's new super-receiver is a marvel of receiver design. Unquestionably the most advanced portable shortwave receiver offered to the radio monitor.

* Frequency coverage from 9 kHz to 30 MHz (LW, MW & SW), 137.62 - 141.12 MHz (Satellites), 1.691 - 1.6945 GHz (with optional **AN-P1200 Dish Antenna ($3500.00)** connected), plus FM broadcast band * Large LCD screen shows frequency, mode, spectrum display, memory channels, and much more * 350 Memory channels * Built-in RTTY and FAX demodulator * Power requirements: 6 VDC (with supplied AC adapter); built-in Ni-Cad battery pack; 2 AA cells for computer/clock * Size: 16 1/4" x 11 1/4 " x 6 3/4" (W x H x D) * Weight: 21 lbs *

GILFER PRICE: $4999.95 (+$30)

List Price: $6500.00

PLEASE CALL FOR SPECIAL ORDERING INFORMATION

Icom IC-R7000

Top of the line VHF/UHF communications receiver

Icom's IC-R7000 is the most advanced VHF/UHF all-mode receiver available to the radio enthusiast. A perfect choice for monitoring distant signals on the high bands: police, ambulance, fire, amateur, marine and satellite communications are at your fingertips.

* Frequency coverage is an incredible 25 MHz to 2 GHz (with a small gap between 1000 and 1025 MHz -- performance guaranteed to 1.3 GHz) * Microprocessor control allows direct entry of frequency and mode * 99 memory channels * 6 different scanning modes: Program Scan, Mode Scan, Priority Scan, Selected Memory Scan, Auto Write Scan and All Memory Scan * computer interface port built-in * 10.7 MHz IF output * 50 ohm N-Type antenna input * selectable tuning steps of .1, 1, 5, 10, 12.5 and 25 MHz * Modes: AM, FM Wide/ Narrow and USB/LSB

GILFER PRICE: $1019.95 (+$12)
List Price: $1199.95

R7000 SPECIFICATIONS:

Frequency Range: 25 MHz to 2 GHz, except no coverage from 1000 - 1025 MHz. Manufacturer guarantees reception up to 1300 MHz.
Tuning Control: Digital PLL synthesizer with CPU control and 100 Hz fluorescent display.
Modes: AM, USB, LSB, FM Wide and FM Narrow
Sensitivity: FM less than 0.5 uV for 12dB SINAD. AM less than 1.0 uV for 10dB SINAD. SSB less than 0.5 uV for 10dB SINAD
Selectivity: FM Wide 15 or 150 kHz. FM Narrow 6 or 15 kHz. AM 15 kHz. SSB 2.8 kHz.
Image Rejection: 60 dB or more
Nominal antenna impedence: 50 Ohms (N-Type connector)

R7000 OPTIONS:

* **RC-12 Remote Control (66.95 + $3)** for the control of your R7000 from afar. * **CK-70 DC Cable Kit ($12.95 + $3)** allows for 12 VDC operation. * **TV-R7000 Video Adapter ($129.95 + $5)** enables reception of NTSC and Amateur Fast-Scan television. Requires color or monochrome composite monitor * **AH-7000 Discone Antenna ($99.95 + $6)** covers 25 - 1300 MHz, and transmits on 50, 144, 220, 430, 900 & 1300 MHz Amateur bands * **SP-3 External Speaker ($63.95 + $5).** Same color and style as R7000 looks and sounds great. Includes cable * **MB-12 Mobile Mounting Bracket ($24.95 + $4)** for mobile installations * **EX-310 Voice Synthesizer ($59.95 + $3)** verbally indicates operating frequency * **Dust cover ($8.95 +$2)** *

Yaesu FRG-9600

Affordable VHF/UHF performance

A sophisticated all-mode VHF/UHF receiver, the FRG-9600 features frequency coverage from 60 to 905 MHz and 100 programmable memories. Affordable price makes this a great choice for the VHF/UHF enthusiast.

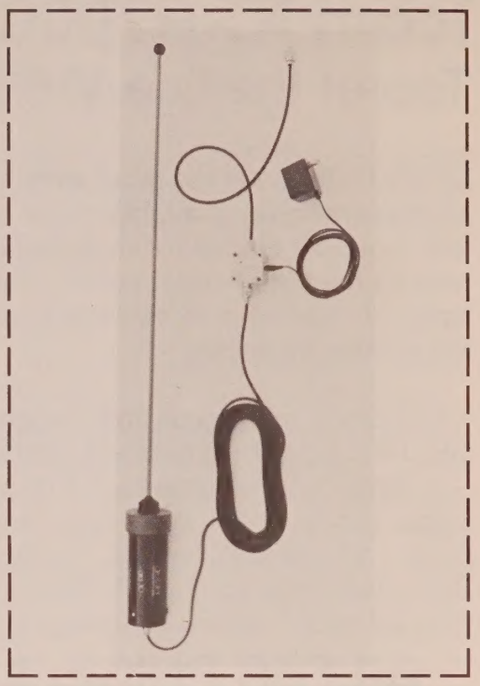
* All modes: AM, FM Wide/Narrow, USB, LSB * 10 memory banks of 10 channels each for total of 100 channels * 12 VDC operation (includes AC adapter and DC cable) * Compact size: 7 1/8 " x 3 5/8 " x 8 3/4" (W x H x D). Weight 4.9 lbs. * Optional **NTSC Video board $24.95 (+$3)**

GILFER PRICE: $549.95 (+$6)
List Price: $699.95

ACTIVE ANTENNAS

DRESSLER ARA-30

Our best selling indoor/outdoor model

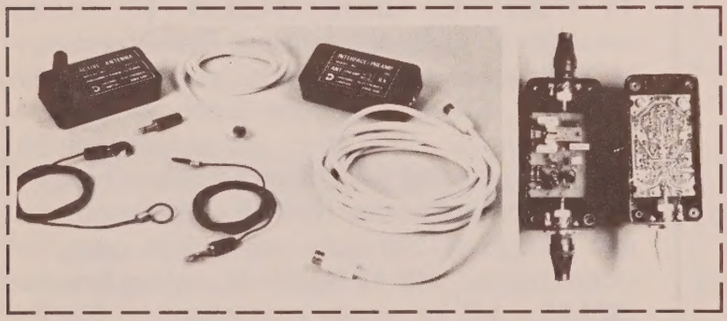


The ara 30 is ideal for those who are reluctant to install a huge antenna farm but need the preformance of a sophisticated antenna system. Only 37 inches tall, the ara 30 is very unobtrusive when mounted on the roof, and small enough to be used as an indoor antenna without a spider web of wires to engulf your shack.

The antenna unit itself is constructed from high-quality aluminum and fiberglass and contains all of the electronics. The antenna rod feeds the received signal to a low-noise FET which acts as an impedance transformer. Additional gain achieved by push-pull amplifier stage working with noisless negative feedback. The result: 10 dB gain from 200 kHz to 30 MHz, with additional limited performance up to 100 MHz. Powered by a 12 VDC adapter (included) through a coupling box which routes the DC up the coaxial cable to the antenna, while filtering the DC out before sending the amplified signal to the receiver. Mounting hardware , 25 ft. of RG-58U coax and power supply is provided, as is Terminating connector is PL-259. Additional coax can be ordered.

GILFER PRICE $159.95 (+$8)

DATONG AD-270 INDOOR ANTENNA



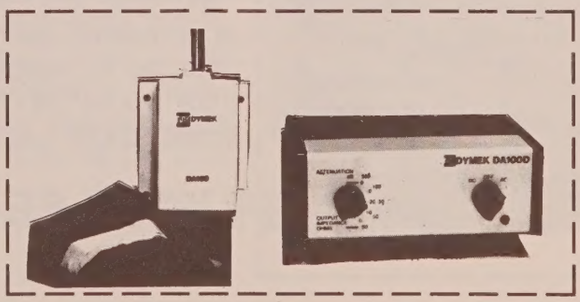
An attractive antenna for the SWL on the go. The AD-270 consists of little more than two boxes (each about the size of a deck of cards), two 5 ft. wire elements, plus one long and one short length of coaxial cable with quick-disconnect Belling-Lee plugs. These parts assemble quickly into an antenna that delivers dazzling performance for any type of HF receiving application with overall gain of 12 dB. An attenuator switch is provided to alleviate overloading by strong signals. The AD-270 is perfect for portables such as the Sony ICF-2010 (and fits nicely in the Travel Case II along with the radio). Requires optional 12 VDC power supply ($15.95). Types of terminating connectors available: PL-259, RCA, Motorola, and 1/8" Phone (Mini-plug); please specify when ordering.

GILFER PRICE $109.95 (+$4)

DATONG AD-370: Same as AD-270 (see above), but with stainless steel elements and waterproof head unit. **For outdoor mounting applications.**
GILFER PRICE $129.95 (+$5)

McKAY DYMEK DA-100D

Just 4 ft. 8 in. tall, weatherproof, and hard to beat performance from 500 kHz to 30 MHz. Indoor control unit supplies power (117/230 VAC, or 12 VDC) and allows user to select impedance to match that of the receiver's antenna input. Two-step attenuation (0 dB, 10dB or 20 dB) provided. Includes 50 ft. coaxial cable. Please specify type of connector when ordering. **GILFER PRICE $179.95 (+$5)**



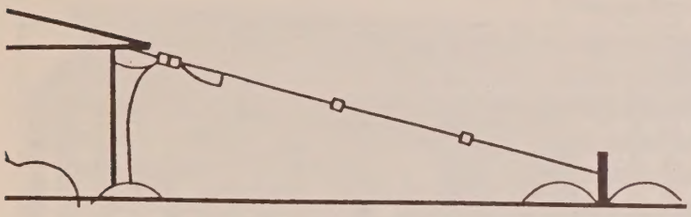
Marine version DA-100DM with fiberglass rod available by special order. **GILFER PRICE ($199.95 + $5)**

SONY AN-1

Designed for use with portable receivers such as the Sony 2010. Coverage from .15 to 30 MHz. Can be mounted indoors or outdoors. Includes coaxial cable. Requires 9 VDC power (6 AA cells or optional AC-930 power supply: $34.95)

GILFER PRICE$89.95 (+$6)

DX-SWL SLOPER by Alpha Delta



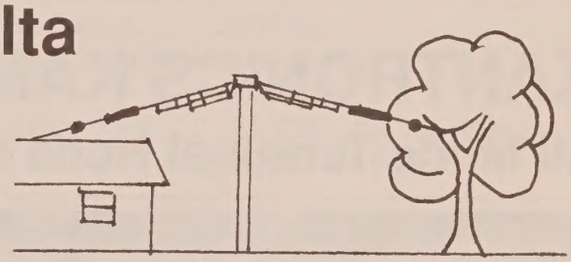
A fine all-purpose antenna for mediumwave and shortwave, the Sloper requires only one single elevated support 25' or higher (a tree, mast, chimney, or wall) and can be mounted at any convenient angle of 60 degrees or less. A single 50-ohm feed point at the apex, with a UHF-type connector (provided on the mounting bracket) can be easily connected to your 50- ohm coax cable. The Sloper utilizes broadband low-Q choke resonators for multi-band frequency selection, and is efficient from 500 kHz to 22 MHz. It is built with heavy-duty transmitting-quality components, comes fully assembled, requires no adjustment, and is made with stainless steel hardware for maximum life under any conditions. **GILFER PRICE $67.95 (+$4)**

DX-SWL-S SHORT SLOPER

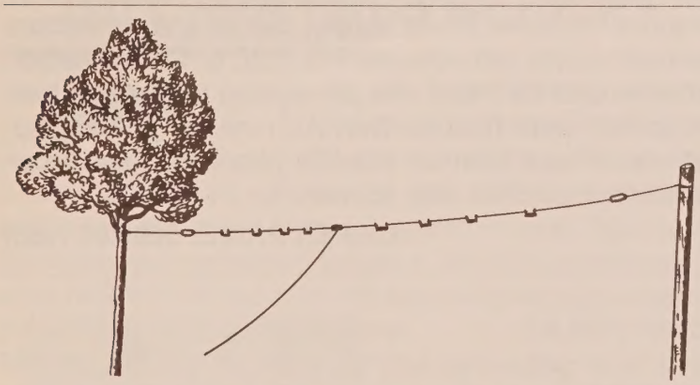
A shorter (40 ft.) version of the popular DX-SWL Sloper, as described above. While not as sensitive on frequencies below 3.5 MHz as the full Sloper, it is built to Alpha Delta's exacting standards, and is a good choice for DXers with space limitations. **GILFER PRICE $59.95 (+$4)**

DXCC DIPOLE by Alpha Delta

Alpha Delta's DXCC dipole antenna is designed for **transmitting and receiving** on the 80 through 10 Meter amateur bands, but it is one of the most impressive antennas we've found for general coverage shortwave reception, too. Unlike normal trap dipoles, the DXCC's ISO-RES coils provide multi-band capabilities without the loss and narrow bandwidth normally associated with LC traps. Overall legnth of the antenna is 82 ft..(Coax not included).



GILFER PRICE $89.95 (+$5)



THE EAVESDROPPER
by Antenna Supermarket

A durable 14-gauge multi-band antenna which can be used either outdoors or in your attic, the Eavesdropper is effective from 4 to 26 MHz, and its balanced input minimizes local noise pickup. The eight carefully assembled and individually resonated trap circuits automatically "zero in" on the band. The kit includes 50' of 450-point test nylon support ropeand Zap Trap lightening arrestor. Completely assembled, ready for your RG-58 or RG-59 coax cable.

GILFER PRICE $74.95 (+$4)

THE INVERTED L
by Antenna Supermarket

This is a passive antenna which is optimized when used with the Yaesu FRT-7700, which is described with the FRG-8800 receiver). It is also a handy, high- quality-material antenna for the experimenter. The package contains 50' of 7-22 stranded 14- gauge copper wire; 75' of 7-22 stranded, insulated 14-gauge lead-in; 40' of 450-point test nylon support rope; 2 strain insulators; 2 nail-knob insulators; and a crimp-on hook lug. **GILFER PRICE $19.95 (+$4)**

CONFUSED BY ANTENNAS??

Many people are. The books that Gilfer carries on the subject are straightforward and practical, written by well-known DXers and hams such as DeMaw, Traister, and Noll; their knowledge of antenna theory will help you get the most out of your shortwave receiver. You may also call Gilfer at (201) 391-7887, and our staff will help you in your final decision.

ACCESSORIES

UNIVERSAL M-7000

Multi-mode digital communications terminal

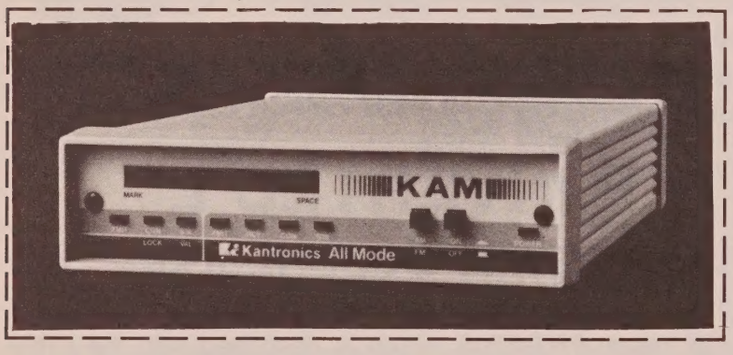
The first choice in multi-mode RTTY/FAX demodulators. Connects to your receiver's audio output, and directly feeds printer and/or composite monitor. Modes include CW, Baudot, ASCII, SITOR, Time Division Multiplex (ARQ), Frequency Division Multiplex (VFT) Packet, FAX and more.

* Automatic tuning of Baudot RTTY signals * Remote terminal interface allows for integration with personal computer * LED indicators for Mark, Space, Power, Buffer, Morse lock, Autostart, IPI, Squelch, Idle, Sel-Cal, Data, Tune Error, and Data Error * Bit Inversion (Baudot only) for encrypted signals * Dimensions: 16.4 x 3.5 x 12.75 inches (W x H x D) * Weight: 9 pounds * 4 models available: 1) Basic Unit; 2) With Real Time Clock; 3) With Video FAX; and, 4) With Real Time Clock AND Video FAX * Monochrome composite video monitors are available from Gilfer. Prices and models vary.

M-7000 Basic Unit . . . . . $ 999.00
M-7000 With Real Time Clock $1089.00
M-7000 With Video Fax $1129.00
M-7000 With RTC and Video Fax $1159.00

KANTRONICS KAM

All Mode Terminal Node Controller



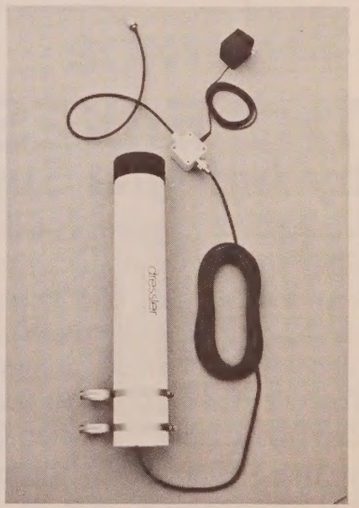
All mode RTTY/Packet/CW/AMTOR/FAX modem. RS-232C or TTL compatible with any personal computer. Dual-port for packet gateway, digipeating, or simultaneous HF and VHF packet connects. Features Personal Mailbox and KA-Node operations. Includes power supply, cables and connectors (user must supply mic jacks and RS-232C or TTL connector. Recommended for those who are looking to combine their radio and computer hobbys. The KAM runs with any communications software normally used for phone modems. However, Kantronics does offer software for their TNCs.

GILFER PRICE: $299.95 (+$5)

DRESSLER ARA-900

A new concept in VHF/UHF antennas

This compact, attractive, and versatile active antenna offers the wide frequency coverage and high gain that will help you get the most out of today's VHF/UHF monitoring receivers.



Built to the most exacting specifications for long life indoors and out, the ARA-900 is waterproof and, when vertical, is omnidirectional and polarized to minimize overload from nearby television stations or other strong VHF/UHF transmitters. Provides excellent coverage between 50 and 900 MHz (11 to 16 dB gain), with reduced performance above and below this range. Recommended for use with the Icom R7000 and other wide-band VHF/UHF receivers. Includes 12 VDC power supply, 25 ft. coaxial cable and mounting hardware.

GILFER PRICE: $189.95 (+$8)

DATONG FL-3

Active Audio Filter with Automatic Notch Filter

Unquestionably the best audio filter on the market today. Features fully automatic notch filter for "hands off" removal of tune-up whistles, carriers and other steady tone interference. Independent low- and high-pass filters with very steep cut-off for removing adjacent channel interference. A second manual notch filter tunes from 200 to 3500 Hz. Special tuning modes for voice, RTTY or CW signals provide maximum flexibility. Works with any receiver: just hook up between audio output and external speaker or headphones.

GILFER PRICE: $259.95 (+$4)

Optional 12 VDC Power Supply: $15.95

Also from Datong:

Model ASP Automatic Speech Processor

Boosts transmitter talk power by simply connecting in series with microphone and mic input. Instant push-button selection of 0, 6, 12, 18, 24 or 30 dB of true RF clipping. Lo/Hi mic impedence matching. Power requirements: internal batteries or external DC supply (not included) **GILFER PRICE: $159.95 (+$4)**

Model SRB2 Woodpecker Blanker

Connects to RF and AF lines on any receiver. Automatically synchronizies to OTH signal and removes interference. RF blanking eliminates receiver desensing while simultaneous AF blanking removes residual clicks. Power requirements: 12 VDC (supply optional - $15.95). **GILFER PRICE: $169.95**

FL-3 SPECIFICATIONS

Auto Notch
Tuning range: 200 - 4000 Hz
Notch Depth: 40 dBs
Filter Q: 10

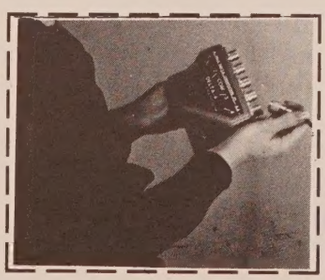
Low/High Pass Filters
Type: Five-pole elliptic function
Frequency Range: 200 - 3500 Hz
Minimum stop band rejection: 40 dBs

General
Power requirements: 10 - 15 VDC, 400 mA max.
Size: 7.2 x 6.0 x 1.7 inches (W x H x D)

LIGHTNING PROTECTION

Isn't your radio worth it?

Protect your rig, your home and your life from lightning with the **Alpha Delta "Transi-Trap"**. Simply connect in-line between your coaxial fed antenna and radio, and connect to proper ground rod (not included). Special replaceable gas cartridge changes a 10K ohm impedence to a few milliohms in less than 100 nanoseconds to ground impulses before the damge is done. **GILFER PRICE $29.95 (+$2)**. Short cable (18") for connecting to receiver available for $4 extra. Also available with "N" connectors for $39.95.



For multi-radio or multi-antenna installations, we recommend **Alpha Delta's "Delta 4"** coaxial switch. Includes the same gas cartridge protection as the Transi Trap, plus 4-way switching with excellent isolation and power handling capabilities. Great for hams and SWLs. **GILFER PRICE $69.95 (+$4).**

"N" type version available for $84.95 (+$4)

COAXIAL CABLE AND CONNECTORS

GILFER offers the highest quality coaxial cable and connectors. We stock **Belden 8240 / RG-58U**. Prices for precut lengths (including two PL-259 connectors):

25 ft. - $9.75 (+$4) **75 ft. - $22.25 (+$5)**
50 ft. - $16.00 (+$4) **100 ft. - $28.50 (+$5)**

Various RF connectors and adapters are available from GILFER., including:

PL-259 (fits RG-8U) - $1.50
PL-259 + UG-175 (fits RG-58U) - $1.95
N-Type (fits RG-58U) - $4.95
BNC (fits RG-58U) - $3.50
RCA phono plug - $ .95
Grundig antenna plug - $3.95
UG-255 (SO-239 to BNC adapter) - $6.50
UG-83 (N female to PL-259 adapter) - $6.50
UG-146 (SO-239 to N male) - $6.50
(+ $3.00 per order. No shipping charges if ordered with any other items)

Other connectors and adapters are available. If you don't see what you need, ask!

AMATEUR RADIO TRANSCEIVERS

Japan Radio Company JST-135

HF Transceiver with General Coverage Receiver

Japan Radio Company's all new JST-135 HF Amateur transceiver is now available from Gilfer. Includes the most advanced features found on any amateur transceiver today.

* General coverage receiver with frequency range of 100 kHz to 30 MHz * One chip direct digital synthesizer (DDS) IC * Modes: USB, LSB, AM, CW, FSK & FM * Variable tuning system in which the double tuning circuit is continuously controlled by a microprocessor to vary with the received frequencies. The system can substantially attenuate undesired signals and enhance selectivity, compared with the wide-band BPF system with a fixed bandwidth * Output power: 150W * Full- or Semi-break-in CW operation * Most of the printed circuit boards are of complete modular plug in design. Each unit is plugged into the mother board, and employs surface mount components extensively, ensuring uniform quality, enhanced reliability, and no wiring * The combined use of the JST-135 transceiver with the NRD-525 general coverage receiver enables transceive or split operation and simultaneous reception of two frequencies. For the combined operation, the RS-232C interface unit is required as an option for both the NRD-525 and JST-135 * Advanced microprocessor frequency control includes 200 memory channels which store frequency, mode, AGC time constant, ATT on/off and IF filter bandwidth. Memory settings are backed up by internal battery. Memory channel scanning and frequency sweeping are available by presetting a start channel and a stop channel. A dual digital VFO system permits operation on two frequencies (F1/F2) and in different modes * Other standard features include integrated speech processor, continuously variable output power control, VOX operation, multi-function meter, RIT control, squelch in all modes, tuning control and key lock, tone squelch unit, and display dimmer control

GILFER PRICE: $1875.95 (+$12)

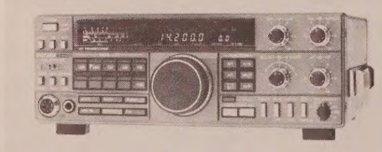
List Price: $2199.00

JST-135 OPTIONS

* **Bandwidth Control (BWC) (CFL243: $449.95):** With this option installed the pass bandwidth of the IF filter can be narrowed in 10 Hz steps without varying its center frequency, ensuring effective interference rejection. This control is available in the SSB and CW modes only. * **Notch Follow Filter (CDD-366: $110.50):** The notch frequency follows the interfering signal frequency. Once the notch frequency is adjusted to reject an unwanted signal, its fine adjustment is no longer required * **Exalted Carrier Selectable Sideband (ECSS) (CMF-78: $299.95):** When receiving an AM (DSB) signal, its USB or LSB that is not affected by adjacent signal interference can be chosen, ensuring effective interference rejection and high tone quality * An **RS-232C interface (CMH-741: $199.95)** option allows for remote control by computer. This option is also needed for transceive operation with the NRD-525 receiver * IF filters for **300 Hz (CFL-231), 500 Hz (CFL-232), 1 kHz (CFL-233), 1.8 kHz (CFL-218A) and 2.4 kHz (CFL-251)** bandwidths **(each $134.95)**. Up to two can be installed on the IF filter board * Other options include a **NFG-230 Automatic Antenna Tuner ($869.95)**, **ST-3 Headphones ($69.95)**, **NFG-97 Manual Antenna Tuner/Power Meter ($269.95)**, **NBD-520U Power Supply ($379.95)**, **NVT-56 Desk Microphone ($109.95)**, **NVT-58 Hand Microphone ($45.95)** and **NVA-88 External Speaker($59.95)** *

Kenwood TS-440S

HF Transceiver with Automatic Antenna Tuner



One of the most popular compact amateur transceiver in America. 160 - 10 meter operation, plus general coverage receive capability.

* Receiver frequency coverage: 100 kHz to 30 MHz * Transmitter final input power: 110 watts * SSB/CW/FSK Selectivity: 2.2/4.4 kHz (-6/-60 dB); AM Selectivity: 6/18 kHz (-6/-50 dB) * Automatic antenna tuner provides perfect SWR match on 80 through 10 meters, including new WARC bands * Power requirements: 12 - 16 VDC *

TS-440S/AT Options: PS-430 Power Supply ($189.00 + $10), PS-50 Heavy Duty Power Supply ($229.95 +$10), MB-430 Mobile Mount ($36.95 + 5), MC-85 Des Mike ($129.95 + $5). IF Filters: same as R-5000 (except YK-88A-1): $86.95 each

GILFER PRICE: $1229.95 (+$15)

List Price: $1449.95